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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

- 1.- 66. (Cancelled).
- 67. (Currently amended) A composition of matter having the following formula:

IEM-PBM-[L]-[MS-MM]_p,

wherein p is 1;

wherein L comprises a physiologically compatible linker moiety which links the PBM and [MS-MM] moieties;

wherein said IEM comprises a complex between:

- (1) a chelating agent selected from the group consisting of DTPA, DOTA, DTPA-BMA, and HP-DO3A, and
- (2) one or more paramagnetic metal ions (M) with atomic numbers 21-29, 42, 44, or 57-83;

wherein said -PBM moiety is selected from the group consisting of:

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, wherein at least one aryl ring of said -PBM of each member of the group is substituted with said $-[L]-[MS-MM]_p$ moiety;

wherein R can be a linear or branched alkyl aliphatic group having from 1 to 5 carbons, an aryl group, or a cycloalkyl group;

wherein the wavy line signifies the attachment site for the IEM;

wherein said -PBM moiety is conjugated to said IEM via a covalent bond to a methylene carbon of said chelating agent of said IEM;

wherein said MS moiety eomprises is an amide bond;

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wherein said MM moiety is a peptide comprising consisting of two or more or three

positively charged amino acids;

and pharmaceutically acceptable salts thereof.

- 68. (Currently amended) The composition of claim 67, wherein said MM moiety is a peptide emprising consisting of two or more Arg, Lys, or tm-Lys amino acids, or mixtures thereof.
- 69. 70. (Cancelled).
- 71. (Currently amended) The composition of claim 68 67, wherein said MM moiety is <u>-Arg-tmLys-tmLys</u>.
- 72. (Currently amended) The composition of claim 68 67, wherein said MM moiety is Ile-Arg-Lys.
- 73. (Currently amended) The composition of claim 68 67, wherein said chelating agent is selected from the group consisting of:

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-O₂C — CO₂-

and

wherein the wavy line signifies the attachment site for the -PBM-L-MS-MM moiety.

74. (Currently amended) The composition of claim 68 67, wherein said chelating agent is

wherein the wavy line signifies the attachment site for the -PBM-<u>L-</u>MS-MM moiety.

- 75. (Previously presented) The composition of claim 67, wherein said paramagnetic metal ion is selected from the group consisting of:
 - (a) Gd (III),
 - (b) Mn (II),
 - (c) Fe (III),

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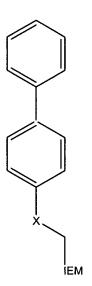
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(d) Cu (II),

- (e) Cr (III), and
- (f) Eu (III).
- 76. (Previously presented) The composition of claim 75, wherein said paramagnetic metal ion is Gd(III).
- 77. (Previously presented) The composition of claim 67, wherein the pharmaceutically acceptable salt is an N-methyl-D-glucamine, calcium, or sodium salt.
- 78. (Previously presented) The composition of claim 77, wherein the pharmaceutically acceptable salt is a sodium salt.
- 79. 80. (Cancelled).
- 81. (Currently amended) A composition of matter having the following structure formula: IEM-PBM (MS-MM),

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wherein said IEM comprises a complex between:

- (1) a chelating agent selected from the group consisting of DTPA, DOTA, DTPA-BMA, and HP-DO3A, and
- (2) one or more paramagnetic metal ions (M) with atomic numbers 21-29, 42, 44, or 57-83;

said composition having the structure:

wherein at least one aryl ring of said structure is substituted with said a L-[MS-MM]_p moiety, wherein p is one;

wherein X is CH₂, O, or NH;

wherein L comprises a physiologically compatible linker moiety which links said one substituted aryl ring with said -[MS-MM]_p moiety;

wherein said MS moiety comprises is an amide bond;

wherein said MM moiety is a peptide comprising consisting of two or more or three positively charged amino acids;

and pharmaceutically acceptable salts thereof.

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82. (Currently amended) The composition of claim 81, wherein said MM moiety is a peptide comprising consisting of two or more Arg, Lys, or tm-Lys amino acids, or mixtures thereof.

- 85. (Currently amended) The composition of claim 82 81, wherein said MM moiety is -Arg-tmLys-tmLys.
- 86. (Currently amended) The composition of claim 82 81, wherein said MM moiety is Ile-Arg-Lys.
- 87. (Currently amended) The composition of claim 81, wherein said chelating agent is selected from the group consisting of:

$$CO_2$$
-
 CO_2

wherein the wavy line signifies the attachment site for the PBM MS-MM moiety.

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88. (Currently amended) The composition of claim 87, wherein said chelating agent is

wherein the wavy line signifies the attachment site for the -PBM-MS-MM moiety.

- 89. (Previously presented) The composition of claim 81, wherein said paramagnetic metal ion is selected from the group consisting of:
 - (a) Gd (III),
 - (b) Mn (II),
 - (c) Fe (III),
 - (d) Cu (II),
 - (e) Cr (III), and
 - (f) Eu (III).
- 90. (Previously presented) The composition of claim 89, wherein said paramagnetic metal ion is Gd(III).
- 91. (Previously presented) The composition of claim 81, wherein the pharmaceutically acceptable salt is an N-methyl-D-glucamine, calcium, or sodium salt.
- 92. (Previously presented) The composition of claim 91, wherein said pharmaceutically acceptable salt is a sodium salt.
- 93. 94. (Cancelled).
- 95. (Currently amended) A method for magnetic resonance imaging, said method comprising:

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a) administering to a mammal the composition of matter of claim 67 or 81,

- b) allowing the composition of matter to be bioactivated;
- c) allowing said bioactivated composition of matter to bind to a protein on the extracellular surface of a tissue or in extracellular fluid surrounding a tissue, said tissue containing a bioactivity to be detected; and
 - d) subjecting said mammal to magnetic resonance imaging.
- 96. (Currently amended) The A compound according to claim 81 having the structure of Prodrug Compound 2:

or Prodrug Compound 10:

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as set forth in the specification.

97. (New) The composition of claim 67 or 81, wherein said L moiety is a peptoid linkage.

98. (New) The composition of claim 67 or 81, wherein said L moiety has the following structure: